BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Road and Drains at Agrahara Village Ashwathkatte Opp Road in Ward No. 05 Byatarayanapura Sub Division

			Estimate Cost Rs.					2000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ item No. 19.1/ PWD SR 2016-17	Cum							
	Road Surface								
	Nagesh House Road		1	80.00	4.80	0.30	115.20		
			1	50.00	4.00	0.30	60.00		
	Lake Road		1	70.00	5.00	0.45	157.50		
	Manjunatha Layout		1	187.00	5.50	0.30	308.55		
							641.25	96.48	**61869.00**
	Basic Rate	82.00							
	Add 11% AD-HOC	9.02							
	Total	91.02							
	Area Weightage @ 6%	5.46							
	Total	**96.48**							
2	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	**Cum**							
	Nagesh House Road		1	80.00	4.80	0.15	57.60		
	Cross Road		1	50.00	4.00	0.15	30.00		
							87.60	5726.51	**501642.00**
	Basic Rate	4867.00							
	Add 11% AD-HOC	535.37							
	Total	5402.37							
	Area Weightage @ 6%	324.14							
	Total	**5726.51**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2016-17	Cum							
	Nagesh House Road		1	80.00	4.80	0.10	38.40		
	Cross Road		1	50.00	4.00	0.10	20.00		
							58.40	6917.23	**403966.00**
	Basic Rate	5879.00							
	Add 11% AD-HOC	646.69							
	Total	6525.69							
	Area Weightage @ 6%	391.54							
	Total	**6917.23**							
4	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2016-17	Sqm							
	Nagesh House Road		1	80.00	4.80		384.00		
			1	50.00	4.00		200.00		
							584.00	105.89	**61842.00**
	Basic Rate	90.00							
	Add 11% AD-HOC	9.90							
	Total	99.90							
	Area Weightage @ 6%	5.99							
	Total	**105.89**							
5	Providing groove cutting for Concrete pavement width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.(Page No 178., I.No.22.8.1 of PWD S.R 2016-17).	**Rmtr**							
	Nagesh House Road		1	80.00			80.00		
			1	50.00			50.00		
							130.00	135.31	**17590.00**
	Basic Rate	115.00							
	Add 11% AD-HOC	12.65							
	Total	127.65							
	Area Weightage @ 6%	7.66							
	Total	**135.31**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 154/ Item No. 20.18/ PWD SR 2016-17	Cum							
	Lake Road		1	70.00	5.00	0.20	70.00		
	Manjunatha Layout		1	187.00	5.50	0.20	205.70		
							275.70	1962.57	**541080.00**
	Basic Rate	1668.00							
	Add 11% AD Hoc	183.48							
	Total	**1851.48**							
	Area Weightage @ 6%	111.09							
	Total	**1962.57**							
7	KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo- Medium Porosity MORTH chapter 5, No. 157/ Item No. 21.5/ PWD SR 2016-17	Sqm							
	Lake Road		1	70.00	5.00		350.00		
	Manjunatha Layout		1	187.00	5.50		1028.50		
							1378.50	65.89	**90829.00**
	Basic Rate	56.00							
	Add 11% AD Hoc	6.16							
	Total	**62.16**							
	Area Weightage @ 6%	3.73							
	Total	**65.89**							
8	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 159/ Item No. 21.20.1/ PWD SR 2016-17	Cum							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Lake Road		1	70.00	5.00	0.025	8.75		
	Manjunatha Layout		1	187.00	5.50	0.025	25.71		
							34.46	7137.26	**245968.00**
	Basic Rate	6066.00							
	Add 11% AD Hoc	667.26							
	Total	**6733.26**							
	Area Weightage @ 6%	404.00							
	Total	**7137.26**							
9	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				**641.25**		
							641.25	81.16	**52046.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2015-16 (P.118/I.17.1) For loading	68.00							
	Total	**73.12**							
	Add 11% AD-HOC	8.04							
		81.16							
							Grand Total		**1976832.00**
10	For 1% Third Party Inspection Charges								**19768.00**
11	Miscesallaneous Charges	L/S							**3400.00**
									2000000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 06(Thanisandra)

Executive Engineer
Byatarayanapura Division
17/02

Assistant Executive Engineer
Byatarayanapura Sub Division

Administrative Approval
Accorded For 20.00 Lakhs
Head of A/C P-1771
CER NO 292 Dt. 08-02-2018

TA
CE (YNK)

TECHNICAL SANCTION

Accorded For Rs. Twenty lakhs only

Head of A/c. P-1771

Div. Ref. No. 85/17-18 Date 17/02/18

AE 17/02

EE(BTP) 17/02